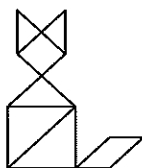


ACTIVITY 6
TANGRAMS AND VISUALIZATION

1. Cut the tangram puzzle into the seven pieces.
2. Sort the pieces. Which belong together? Record your sort by making a sketch.
3. How are the five triangles alike? Different?
4.
 - a. Put the two small triangles together so that one pair of sides of the two triangles fit together. Does this new shape match any other shape in the puzzle? Which?
 - b. Repeat part (a) to make a different shape. Does this new shape match any other shape in the puzzle? Which?
 - c. Repeat part (a) to make another shape. Does this new shape match any other shape in the puzzle? Which?
5. Repeat this activity by putting the two large triangles together (making one pair of sides fit together). What shapes do you get?
6. Put the three smaller triangles together to form these shapes:
 - (a) a square
 - (b) a rectangle that is not a square
 - (c) a parallelogram that is not a rectangle
 - (d) a trapezoid
 - (e) a right triangle

Sketch each result. What is the same about each figure formed in (a) through (e)?

7. Now use all seven pieces and repeat question 6. Sketch your results.
8. Create your own shape(s) with the seven pieces. Sketch your result(s).
For example: A cat



9.
 - a. If the puzzle were made of gold leaf and the smallest triangle cost \$10, what would the whole puzzle cost? Explain how you found your answer.
 - b. If the whole puzzle were worth \$1, what would be the value of each piece? Explain how you found your answer.